



# UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE  
United States Patent and Trademark Office  
Address: COMMISSIONER FOR PATENTS  
P.O. Box 1450  
Alexandria, Virginia 22313-1450  
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
-----------------	-------------	----------------------	---------------------	------------------

10/761,386

01/22/2004

Hideaki Funakoshi

040894-5994

3093

9629 7590 10/20/2008  
MORGAN LEWIS & BOCKIUS LLP  
1111 PENNSYLVANIA AVENUE NW  
WASHINGTON, DC 20004

EXAMINER

CHOW, VAN NGUYEN

ART UNIT

PAPER NUMBER

2627

MAIL DATE

DELIVERY MODE

10/20/2008

PAPER

**Please find below and/or attached an Office communication concerning this application or proceeding.**

The time period for reply, if any, is set in the attached communication.

<b>Office Action Summary</b>	<b>Application No.</b> 10/761,386	<b>Applicant(s)</b> FUNAKOSHI ET AL.	
	<b>Examiner</b> Van N. Chow	<b>Art Unit</b> 2627	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

- 1) ☒ Responsive to communication(s) filed on 04 September 2008.
- 2a) ☒ This action is **FINAL**.                      2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

### Disposition of Claims

- 4) ☒ Claim(s) 1-7 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☒ Claim(s) 5-6 is/are allowed.
- 6) ☒ Claim(s) 1-4 and 7 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

### Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All    b) ☐ Some \*    c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

### Attachment(s)

- |                                                                                      |                                                                   |
|--------------------------------------------------------------------------------------|-------------------------------------------------------------------|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892)                     | 4) <input type="checkbox"/> Interview Summary (PTO-413)           |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____                                      |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)          | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date _____                                                          | 6) <input type="checkbox"/> Other: _____                          |

***Response to Arguments***

Applicant's arguments filed 09/04/2008 have been fully considered but they are not persuasive.

Applicant argued Nakamura does not teach the limitations "the wires are fixed at portions that do not overlap each other in a direction orthogonal to an extending direction of the wires", which is incorrect. Nakamura, Figs. 6 and 8, discloses the wires are fixed at portions that do not overlap each other in a direction orthogonal to an extending direction of the wires", wherein the both direction Y and Z are orthogonal to an extending direction of the of the wires (direction X, see attachments), and the direction Z shows that the wires are fixed at portions that do not overlap each other in a direction orthogonal to an extending direction of the wires.

***Claim Rejections - 35 USC § 102***

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 2-4 and 7 rejected under 35 U.S.C. 102(b) as being anticipated by Nakamura (JP 2002-298402).

Regarding claim 2, Nakamura discloses an optical pickup comprising:

a lens (see Fig 7, lens 26);

Art Unit: 2627

a fixing portion (see Fig. 8, relay board 29);

at least two pairs of wires (see Figs. 7 and 8, four wires 30);

attaching means (see Fig. 8, those black dots);

wherein the lens is resiliently supported in such a manner as to be displaceable by the at least two pairs of wires which are attached to the fixing portion by the attaching means (see Figs. 7 and 8);

the wires have the same length and are fixed to the lens at different distances from the attaching means (see Fig. 8, lengths L1, L2 and L3);

the wires extend parallel to each other (see Figs. 7 and 8, four wires 30);

the wires are fixed at portions that do not overlap each other in a direction orthogonal to an extending direction of the wires (see response above).

Regarding claim 3, discloses the optical pickup according to claim 2, wherein the wires are formed of the same material (see Figs. 7-8, which is inherent).

Regarding claim 4, discloses the optical pickup according to claim 2, further comprising:

a lens holder holding the lens (see Figs. 7-8, lens holder 27); and

a substrate secured to the lens holder (see Figs. 7 and 8, printed circuit board 33);

wherein the wires are soldered to the substrate (see Fig. 8, the black dots on the circuit board 33).

Regarding claim 7, see rejection above of claim 2.

***Claim Rejections - 35 USC § 103***

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

Art Unit: 2627

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claim 1 is rejected under 35 U.S.C. 103(a) as being unpatentable over Nakamura (JP 2002-298402) in view of Haruguchi et al. (US 2003/0016597).

Regarding claim 1, Nakamura discloses an optical pickup comprising:

a lens holder holding a lens (see Figs. 7 and 8, lens holder 27);

a substrate secured to the lens holder (see Figs. 7 and 8, printed circuit board 33);

a fixing portion (Fig. 8, relay board 29);

two pairs of first and second wires, each pair being formed by one left wire and one right wire (see Figs. 7 and 8, four wires 30); and

attaching means (see Fig. 8, those black dots);

wherein the lens holder is resiliently supported in such a manner as to be displaceable by the two pairs first and second wires which are attached to the fixing portion by the attaching means (see Figs. 7 and 8); and

the first, and second wires have the same length and are formed of the same material, and are soldered to the substrate at different distances from the attaching means (see Fig. 8, lengths L1, L2 and L3);

the first, and second wires extend parallel to each other (see Figs. 7 and 8, four wires 30); and

the first, second, and third wires are soldered at portions that do not overlap each other in a direction orthogonal to an extending direction of the first, second, and third wires (see response above).

However, Nakamura does not disclose three pair of wires, but two pair of wires are being formed by one left wire and one right wire which are the same length and are formed of the same material, and are soldered to the substrate at the differences distances from the attaching means (see Figs. 7 and 8).

Haruguchi et al. discloses Fig. 4 three pair of wires (suspension wires 39) are being formed by one left wire and one right wire, wherein one ends of suspension wires 39 are bonded to substrate 37, and substrate 38 with a solder or the like (see [0064]).

It would have been obvious to a person of ordinary skill in the art at the time the invention was made to provide three pair of wires in Nakamura as suggested by Haruguchi, the motivation being in order to be able to supply power to each of the focus coils and serially connected tracking coils (see Haruguchi [0065]).

#### ***Allowable Subject Matter***

Claims 5-6 are allowed.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

#### ***Conclusion***

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP

Art Unit: 2627

§ 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

#### ***Cited references***

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Optical pickup actuator (Choi US 2003/0198148).

Objective lens actuator for optical head (Matsui US 5,748,580).

#### ***Conclusion***

Any inquiry concerning this communication or earlier communications from the examiner should be directed to VAN T. PHAM whose telephone number is (571)272-7590. The examiner can normally be reached on Tuesday-Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Wayne R. Young can be reached on 571-272-7582. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Art Unit: 2627

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/VAN T PHAM/  
Examiner, Art Unit 2627

/Wayne Young/  
Supervisory Patent Examiner, Art  
Unit 2627